

P.B.5818 – Patentlaan 2
2280 HV Rijswijk (ZH)
+31 70 340 2040
TX 31651 epo nl
FAX +31 70 340 3016

Europäisches
Patentamt

Zweigstelle
in Den Haag
Recherchen-
abteilung

European
Patent Office

Branch at
The Hague
Search
division

Office européen
des brevets

Département à
La Haye
Division de la
recherche

HOFFMANN - EITLE
Patent- und Rechtsanwälte
Arabellastrasse 4
81925 München
ALLEMAGNE

EINGEGANGEN

26. Nov. 2001

HOFFMANN - EITLE, MÜNCHEN
PATENTANWÄLTE RECHTSANWÄLTE

Datum/Date
23.11.01

Zeichen/Ref./Réf.
86 274 a/fi

Anmeldung Nr./Application No./Demande n°/Patent Nr./Patent No./Brevet n°.
01103630.8-2207-

Anmelder/Applicant/Demandeur/Patentinhaber/Proprietor/Titulaire
MITSUBISHI DENKI KABUSHIKI KAISHA

COMMUNICATION

The European Patent Office herewith transmits as an enclosure the European search report for the above-mentioned European patent application.

If applicable, copies of the documents cited in the European search report are attached.

Additional set(s) of copies of the documents cited in the European search report is (are) enclosed as well.

The following specifications given by the applicant have been approved by the Search Division:

abstract

title

The abstract was modified by the Search Division and the definitive text is attached to this communication.

The following figure will be published together with the abstract: 1

REFUND OF THE SEARCH FEE

If applicable under Article 10 Rules relating to fees, a separate communication from the Receiving Section on the refund of the search fee will be sent later.





European Patent
Office

EUROPEAN SEARCH REPORT

Application Number
EP 01 10 3630

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
X	PATENT ABSTRACTS OF JAPAN vol. 007, no. 166 (E-188), 21 July 1983 (1983-07-21) & JP 58 072358 A (HITACHI SEISAKUSHO KK), 30 April 1983 (1983-04-30) * abstract * ---	1,2	H02K11/04 H02K3/28
Y	US 3 604 963 A (TAWARA YASUO) 14 September 1971 (1971-09-14) * column 3, line 2 - line 56; figure 1 * ---	3-10	
Y	US 5 296 770 A (PFLUEGER GERHARD ET AL) 22 March 1994 (1994-03-22) * column 5, line 10 - column 6, line 6; figures 1,3-9 * ---	4	
Y	US 4 169 282 A (ALLPORT MAURICE J ET AL) 25 September 1979 (1979-09-25) * column 2, line 23 - column 4, line 15; figures 1-6 * ---	6,9	
D, Y	EP 0 751 609 A (MITSUBISHI ELECTRIC CORP) 2 January 1997 (1997-01-02) * abstract; figure 7 * ---	8	TECHNICAL FIELDS SEARCHED (Int.Cl.7) H02K
Y	EP 0 720 273 A (MITSUBISHI ELECTRIC CORP) 3 July 1996 (1996-07-03) * column 10, line 27 - line 36; figures 18,19 * ---	10	
A	US 5 451 823 A (DEVERALL ROBERT M ET AL) 19 September 1995 (1995-09-19) * the whole document * ---	1-10	
A	US 5 508 571 A (SHAFFER JR GEORGE G) 16 April 1996 (1996-04-16) * abstract; figure 1 * ---	1-10	
		-/-	
The present search report has been drawn up for all claims			
1	Place of search MUNICH	Date of completion of the search 14 November 2001	Examiner Tangocci, A
CATEGORY OF CITED DOCUMENTS			
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document			
T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			



European Patent
Office

EUROPEAN SEARCH REPORT

Application Number

EP 01 10 3630

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
A	PATENT ABSTRACTS OF JAPAN vol. 018, no. 617 (E-1634), 24 November 1994 (1994-11-24) & JP 06 233483 A (HONDA MOTOR CO LTD), 19 August 1994 (1994-08-19) * abstract * -----	1-10	
A	US 4 952 829 A (ARMBRUSTER FRANZ ET AL) 28 August 1990 (1990-08-28) * the whole document * -----	1-10	
A	US 4 419 597 A (SHIGA TSUTOMU ET AL) 6 December 1983 (1983-12-06) * the whole document * -----	1-10	
			TECHNICAL FIELDS SEARCHED (Int.Cl.7)
<p>The present search report has been drawn up for all claims</p>			
1	Place of search MUNICH	Date of completion of the search 14 November 2001	Examiner Tangocci, A
CATEGORY OF CITED DOCUMENTS			
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document			
T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.

EP 01 10 3630

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

14-11-2001

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
JP 58072358	A	30-04-1983	NONE		
US 3604963	A	14-09-1971	NONE		
US 5296770	A	22-03-1994	DE WO DE EP	4018710 A1 9120119 A1 59104341 D1 0533684 A1	19-12-1991 26-12-1991 02-03-1995 31-03-1993
US 4169282	A	25-09-1979	GB AU AU DE ES FR IN JP ZA	1589717 A 503916 B2 2988977 A 2747229 A1 463463 A1 2368800 A1 148846 A1 53053732 A 7706167 A	20-05-1981 27-09-1979 07-06-1979 27-04-1978 16-11-1978 19-05-1978 27-06-1981 16-05-1978 28-06-1978
EP 0751609	A	02-01-1997	JP CN EP EP KR US	9019119 A 1139309 A 1137156 A2 0751609 A2 220311 B1 5682070 A	17-01-1997 01-01-1997 26-09-2001 02-01-1997 15-09-1999 28-10-1997
EP 0720273	A	03-07-1996	JP CN DE DE EP HK KR US	8182279 A 1128427 A 69513496 D1 69513496 T2 0720273 A2 1010430 A1 235368 B1 5729063 A	12-07-1996 07-08-1996 30-12-1999 06-07-2000 03-07-1996 18-08-2000 15-12-1999 17-03-1998
US 5451823	A	19-09-1995	NONE		
US 5508571	A	16-04-1996	EP	0717488 A2	19-06-1996
JP 06233483	A	19-08-1994	NONE		
US 4952829	A	28-08-1990	DE DE WO EP JP	3728081 A1 3869761 D1 8902161 A1 0329722 A1 2553179 B2	02-03-1989 07-05-1992 09-03-1989 30-08-1989 13-11-1996

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 01 10 3630

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on. The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

14-11-2001

Patent document cited in search report	Publication date		Patent family member(s)	Publication date
US 4952829	A	JP	2500630 T	01-03-1990
US 4419597	A	06-12-1983	CA 1154815 A1	04-10-1983